In the Claims

1.-12. (Cancelled)

13. (Currently Amended) A method of decreasing the number, or formation, of intratumoral vessels in a mammal in need thereof comprising administering by direct inoculation and electrotransfer intramuscular or intratumoral injection, followed by application of electric pulses to an a corresponding intramuscular site, or an intratumoral site, injected site(s) in the mammal, a therapeutically effective amount of an expression plasmid coding for the disintegrin domain a therapeutic peptide consisting of the sequence shown in SEQ ID NO: 2 absent any operably linked coding sequence, where the disintegrin domain consisting of the sequence shown in SEQ ID NO: 2 therapeutic peptide is encoded by a polynucleotide sequence operably linked to a promoter or expression control sequence and whereby the number, or formation, of intratumoral vessels is decreased.

14.-16. (Cancelled)

17. (Currently Amended) A method of treating a mammal with melanoma in a mammal in need thereof by decreasing the number, or formation, of intratumoral vessels comprising administering by direct inoculation and electrotransfer intramuscular or intratumoral injection, followed by application of electric pulses to an a corresponding intramuscular site, or an intratumoral site, injected site(s) in the mammal, a therapeutically effective amount of an expression plasmid coding for the disintegrin domain a therapeutic peptide consisting of the sequence shown in SEQ ID NO: 2 absent any operably linked coding sequence, where the disintegrin domain consisting of the sequence shown in SEQ ID NO: 2 therapeutic peptide is encoded by a polynucleotide sequence operably linked to a promoter or expression control sequence and whereby the number, or formation, of intratumoral vessels is decreased and melanoma in the mammal is treated.

18.-20. (Cancelled)

21. (Currently Amended) A method of treating <u>a mammal with pulmonary metastases</u> in a mammal in need thereof by decreasing the number, or formation, of intratumoral vessels comprising administering by <u>direct inoculation and electrotransfer intramuscular or intratumoral</u> injection, followed by application of electric pulses to <u>an a corresponding</u> intramuscular site, or

an intratumoral site; injected site(s) in the mammal, a therapeutically effective amount of an expression plasmid coding for the disintegrin domain a therapeutic peptide consisting of the sequence shown in SEQ ID NO: 2 absent any operably linked coding sequence, where the disintegrin domain therapeutic peptide consisting of the sequence shown in SEQ ID NO: 2 is encoded by a polynucleotide sequence operably linked to a promoter or expression control sequence and whereby the number, or formation, of intratumoral vessels is decreased and the pulmonary metastases in the mammal are treated.

22.-24. (Cancelled)

- 25. (Currently Amended) The method according to claim 13, wherein said polynucleotide sequence encoding the disintegrin domain consisting of the sequence shown in SEQ ID NO: 2 consists of the sequence shown in SEQ ID NO: 1.
- 26. (Currently Amended) The method according to claim 13, wherein said expression plasmid coding for the disintegrin domain a therapeutic peptide consisting of the sequence shown in SEQ ID NO: 2 is administered by direct inoculation and electrotransfer intramuscular or intratumoral injection followed by application of electric pulses to an intramuscular site in the mammal.
- 27. (Currently Amended) The method according to claim 17, wherein said polynucleotide sequence encoding the disintegrin domain consisting of the sequence shown in SEQ ID NO: 2 consists of the sequence shown in SEQ ID NO: 1.
- 28. (Currently Amended) The method according to claim 17, wherein said expression plasmid coding for the disintegrin domain therapeutic peptide consisting of the sequence shown in SEQ ID NO: 2 is administered by direct inoculation and electrotransfer intramuscular or intratumoral injection followed by application of electric pulses to an intramuscular site in the mammal.
- 29. (Currently Amended) The method according to claim 21, wherein said polynucleotide sequence encoding the disintegrin domain consisting of the sequence shown in SEQ ID NO: 2 consists of the sequence shown in SEQ ID NO: 1.

30. (Currently Amended) The method according to claim 21, wherein said expression plasmid coding for the disintegrin domain therapeutic peptide consisting of the sequence shown in SEQ ID NO: 2 is administered by direct inoculation and electrotransfer intramuscular or intratumoral injection followed by application of electric pulses to an intramuscular site in the mammal.